



ACTIVE TRANSPONDERS

The transponders are detected by a wire timing loop. They provide highest accuracy and 100% detection rate at a low power consumption. The four models are tuned to different application scenarios, but can be used in the same race.

	ActiveBasic V3	ActivePro V3	ActivePro V3 Performance	MotorKart V3
				
Warranty* / Battery Lifetime				
Years	4 years	5 years	3.5 years	3.5 years
Passings	50,000	100,000	50,000	300,000
Tracking fast / slow	–	400/1,000 days	150/300 days	150/300 days
Please note: The battery cannot be replaced				
Detection				
Accuracy	0.2 s	0.004 s	0.004 s	0.004 s
Max. speed	60 km/h	120 km/h	150 km/h	120 km/h
Resolution**	0.001 s	0.001 s	0.001 s	0.001 s
2.4 GHz backup	dual	dual	quad	dual
Exit passing precision	170 ms	100 ms	50 ms	170 ms
Reaction time	500 ms	250 ms	125 ms	125 ms
Loop Antenna	2D	3D	3D	3D
Prewarn	–	–	✓	–
Detection height	2 m	2 m	2m	0.5m
Tracking				
Max. time between Track Boxes	–	5 h	5 h	5 h
Max. time between Loops	–	25 h	25 h	25 h
Typical track ping range	–	50 m	200 m	50 m
Activation	–	Loop ID 8 + Channel ID 8	Loop ID 8 + Channel ID 8	Management Box
Adaptive track ping intervals	–	5 s / 2 s / 1 s	1 s / 0.5 s	1 s / 0.5 s
Store Mode				
Max. passings stored	–	64	128	128
Max. store time	–	12 h	24 h	12 h
Store Mode precision	Temperature compensated +-5ppm			
Temperature	-25°C – 70°C			
Features				
Extra transponder code	✓	✓	✓	✓
Adaptive noise avoidance	✓	✓	–	–
Key-value store	✓	✓	✓	✓
Deep sleep mode	✓	✓	✓	✓
Patents (This product may be protected by one or more of the patents listed below. Additional patents may be pending.)				
EP3380203B1, US10695647B2, DE102015010398B4				

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